

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-8 (Cancelled)

9. (Currently Amended) A method for automatic recognition of available simulation configurations of integrated circuits under design comprising at least two components connected to one another, directly or indirectly, and for functional verification of said integrated circuits through a simulation test comprising:

[[ - ]]acquiring a simulation configuration by a server manager, associated with a simulator, during ~~the~~ initialization of a simulator program, ~~during~~in which all constructors of HLL (C++) instances of components present in a current global simulation model are called,

[[ - ]]registering the presence of each of said constructors by transmitting parameters of each of said constructors to the server manager, constructing an instance table of the components by said server manager,

[[ - ]]sending a request by a client manager, to the server manager to determine whether the components expected in a configuration by the client manager are present and determining their positions and their types,

[[ - ]]sending a response by the server manager to the client manager, after a consultation of the instance table of the components, said response containing the

instances of the components present and/or an error notification in case of the absence of one or more expected components,  
[[-]]storing the response in at least one configuration model storage table by the client manager,  
[[-]]comparing the response by the client manager with the requirements of the simulation test, and  
[[-]]disabling, activating and/or modifying certain parts of the simulation test by the client manager in order to adapt the simulation test to the configuration, or signaling of an error if the simulation test cannot be adapted to the configuration.

10. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 9, comprising generating the available simulation configurations from configuration generation data prior to the utilization of the method.

11. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 10, wherein the generation of the available simulation configurations is controlled by an operator.

12. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 10, wherein the generation of the available simulation configurations is controlled by an automatic configuration generator.

13. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 9, wherein the step for sending a request is followed by a step for translation of said request, by a program interface, into a language understandable by the server manager, and in that the step for sending a response is followed by a step for translation of said response, by the program interface, into a language understandable by the client manager.

14. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 10, wherein the step for sending a request is followed by a step for translation of said request, by a program interface, into a language understandable by the server manager, and in that the step for sending a response is followed by a step for translation of said response, by the program interface, into a language understandable by the client manager.

15. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 11, wherein the step for sending a request is followed by a step for translation of said request, by a program interface, into a language understandable by the first server manager, and in that the step for sending a response is followed by a step for translation of said response, by the program interface, into a language understandable by the client manager.

16. (Previously Presented) A method for the automatic recognition of available simulation configurations according to claim 12, wherein the step for sending a request is followed by a step for translation of said request, by a program interface, into a language

understandable by the server manager, and in that the step for sending a response is followed by a step for translation of said response, by the program interface, into a language understandable by the client manager.

17. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 9, wherein the method operates in a client-server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

18. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 10, wherein the method operates in a client-server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

19. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 11, wherein the method operates in a client-server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

20. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 12, wherein the method operates in a client-

server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

21. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 13, wherein the method operates in a client-server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

22. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 14, wherein the method operates in a client-server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

23. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 15, wherein the method operates in a client-server architecture, the server~~client~~ manager being located in the server of the client-server architecture and the client~~server~~ manager is located in the client of the client-server architecture.

24. (Currently Amended) A method for the automatic recognition of available simulation configurations according to claim 16, wherein the method operates in a client-

server architecture, the ~~server~~<sup>client</sup> manager being located in the server of the client-server architecture and the ~~client~~<sup>server</sup> manager is located in the client of the client-server architecture.

25. (Currently Amended) A system for automatic recognition of available simulation configurations of integrated circuits under design comprising a client manager and ~~a first~~ server manager associated with a simulator,

said simulator comprising constructors of instances of components present in a current global simulation configuration model and means for registering the presence of each of said constructors by transmitting parameters of each of said constructors to said server manager,

said server manager having storage means for storing at least one instance table of components present in each configuration, means for filling said instance table with the parameters received from each of said constructors, means for formulating and/or analyzing a message or a request, means for consulting said instance table in response to said message or request and/or means for formulating a message or a response, said response containing the instances of the components present and/or an error notification in case of the absence of one or more expected components and, ~~means for filling and consulting at least one instance table of components present in each configuration~~

~~said a second~~ client manager having storage means comprising at least one storage table for storing the simulation configuration model, means for consulting said at least one storage table, means for formulating a message and/or a request, means for analyzing the message or a response received from said server manager, storage means and means

~~for filling and consulting at least one storage table and means for filling said storage table with said response for storing configuration models in the storage means.~~

26. (Currently Amended) A system to automatically test recognition of configurations according to claim ~~17~~25, wherein the ~~second~~client manager includes means for disabling, activating and/or modifying certain parts of ~~the~~a test in order to adapt the test based on ~~the~~a response.